

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS, AND RELATED MATERIALS
REPLACES NCPA 1-82

MANUFACTURERS NAME

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DATE OF PREPARATION

10/86

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 24-F2-247 (BASE)/PC-101 (CURING SOLUTION) Mix Ratio: 1 to 1 by Volume
PRODUCT NAME : (Gloss Blue Enamel) Empyrean Blue
PRODUCT CLASS : Polyurethane

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	%WT.	OCCUPATIONAL EXPOSURE LIMITS				VAPOR PRESSURE mm.Hg. @ 20°C
			TLV (ACGIH) (ppm) mg/cu.m.	PEL (OSHA) (ppm) mg/cu.m.			

BASE COMPONENT:							
Epoxy Resin		< 20	NE		NE		NA
Titanium Dioxide	13463-67-7	< 5		5*		15	NA
Phthalocyanine Blue		< 5		5*		5*	NA
2 Ethoxyethyl Acetate	111-15-9	< 10	5		100		2
Propylene Glycol	108-65-6	< 5	NE		NE		3.7
Monomethylether Acetate							
cyclohexanone	108-94-1	< 15	25		50		3.4

CURING SOLUTION:

Homopolymer of HDI (Hexamethylene Diisocyanate)	28182-81-2	NE			NE	NA
HDI Monomer Content (Maximum)	822-06-0	.2	.02 (Suggested)			NA
Toluene	108-88-3	< 25	100		200	22
Xylene	1330-20-7	< 5	100		100	21
n-Butyl Acetate	123-86-4	< 5	150		150	10

NE = NOT ESTABLISHED

NA = NOT APPLICABLE

* RESPIRABLE DUST

SECTION III - PHYSICAL DATA

BOILING RANGE 231°F-315°F VAPOR DENSITY XX HEAVIER LIGHTER THAN AIR
EVAPORATION RATE FASTER XX SLOWER THAN ETHER 60 % VOLATILE VOLUME 8.5 WT/GAL

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA Class IB FLASH POINT 40°F. TCC LEL 1.
DOT Paint, Flammable Liquid, (UN1263)

EXTINGUISHING MEDIA: Use NFPA Class B extinguishers.

☒ FOAM ☐ "ALCOHOL" ☒ CO₂ ☒ DRY CHEMICALS ☒ WATER FOG ☐ OTHER
FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. Self contained breathing apparatus should be worn by firefighters. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIREFIGHTING PROCEDURES: Water spray may be ineffective. If water is used, fog nozzles are preferred. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Can cause irritation to skin, eyes, and respiratory tract. Symptoms may be watering of eyes, dryness of throat, coughing, headache, tightness in chest or burning sensation. Allergic reactions may occur in some individuals. Headache, dizziness or nausea may be experienced by some as a result of exposure to solvents.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Persons with asthmatic type conditions, chronic bronchitis or other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with this product.

PRIMARY ROUTE(S) OF ENTRY: ☒ DERMAL ☒ INHALATION ☐ INGESTION

EMERGENCY AND FIRST AID PROCEDURES: Eye Contact: Flush with water for 15 minutes. Consult physician. Skin Contact: Wash affected area with soap and water. Remove contaminated clothing. Consult physician. Inhalation: Remove to fresh air. Consult physician. Ingestion: Drink water to dilute. Do not induce vomiting. Consult physician.

SECTION VI - REACTIVITY DATA

STABILITY: ☐ UNSTABLE ☒ STABLE

HAZARDOUS POLYMERIZATION: ☐ MAY OCCUR ☒ WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: By fire - CO, CO₂, nitrogen oxides, traces of HCN, HDI.

CONDITIONS TO AVOID: Contact with moisture and other materials which react with isocyanates. Temperature above maximum storage temperature. Avoid exposure to heat, sparks, or open flames.

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid contact with water, alcohols, amines, strong bases, metal compounds or surface active materials. Avoid contact with strong oxidizing agents.